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## **POMS project**

Anna Mazzacane

February 02, 2018

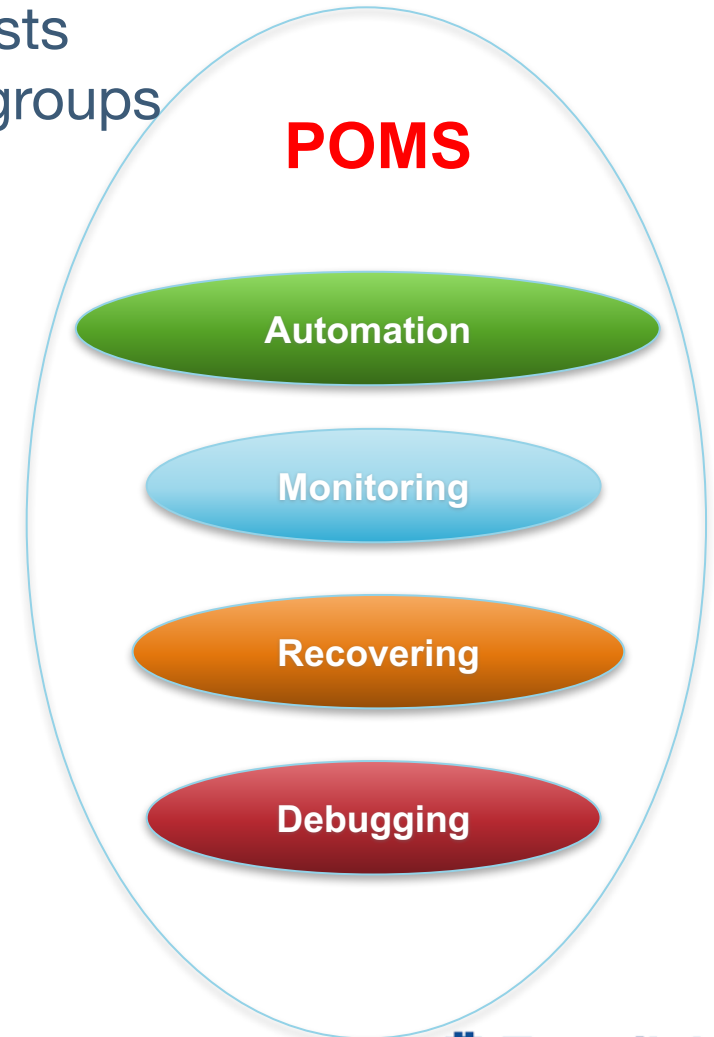
# In these slides

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- I will give an overview of POMS
- I will show some of the many features implemented in POMS

# POMS

- **The Production Operations Management Service (POMS)** is a project to design a service which assists the production teams and the analysis groups of the experiments in their scientific computational work.
- POMS provides a web interface to:
  - Submit batch jobs
  - Monitor job submissions and files delivery
  - Recover failed jobs
  - Debug failures
  - Keep track of configurations used



# What it is needed to use POMS

- The production instance of POMS is at <https://pomsgpvm01.fnal.gov/poms/>



Please enter your SERVICES user name and password.

Username

Password

Sign On

Fermilab [Disclaimer](#)

- Use services account to login
- Need an experiment affiliation and computing permissions to submit jobs

# How To Interface To POMS

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- First important step is how to translate the experimental workflow of a Monte Carlo production or DATA processing into POMS

# Experimental Workflow – Set Of Stages/Steps

Event Generation

Physics  
Interactions

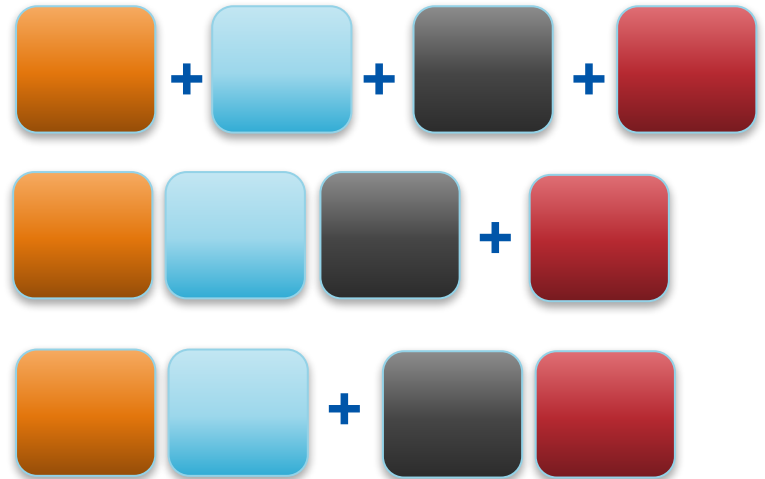
Detector  
Response

Simulation

**MC  
Production**

Event  
Reconstruction

**Data  
Processing**



**Workflow variations**

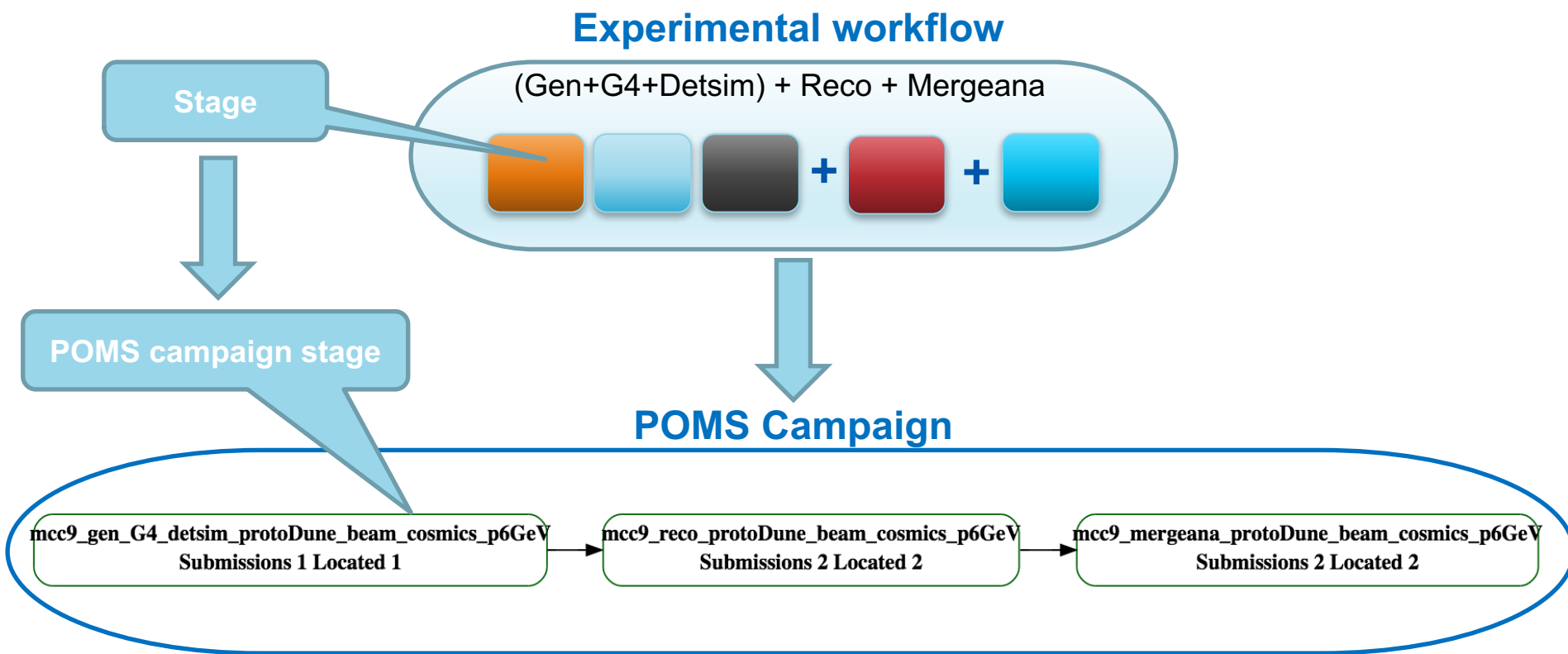
**Example**

(Gen+G4+Detsim) + Reco + Mergeana



# Experimental Workflow into POMS

- Experimental workflow = POMS campaign
- A stage in the experimental workflow = POMS campaign stage



# POMS Campaign Stages

## Campaign Stages ?

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dune

production



Mark Campaigns Active/Inactive

Tag/untag Campaigns

Hold/Release Campaign Submission

Show ALL Campaigns Statistics

Select All <input type="checkbox"/>	Name	Active	Tags	Hold By	Creator	Created
	6GeV		dune_mcc9		mazzacan	
<input type="checkbox"/>	<a href="#">mcc9_reco_protoDune_beam_cosmics_p6GeV</a>	No	dune_mcc9		mazzacan	2017-04-30 08:14:24
<input type="checkbox"/>	<a href="#">mcc9_gen_G4_detsim_protoDune_beam_cosmics_p6GeV</a>	No	dune_mcc9		mazzacan	2017-04-30 08:13:44
<input type="checkbox"/>	<a href="#">mcc9_mergeana_protoDune_beam_cosmics_p6GeV</a>	No	dune_mcc9		mazzacan	2017-04-30 08:15:05



# POMS Campaign Stages Stats

Campaign Stages ?

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dune

production



Mark Campaigns Active/Inactive

Tag/Untag Campaigns

Hold/Release Campaign Submission

Show ALL Campaigns Statistics

Select All	Name	Active	Tags	Hold By	Creator	Created
<input type="checkbox"/>	6GeV		dune_mcc9		mazzacane	
<input type="checkbox"/>	mcc9_reco_protoDune_beam_cosmics_p6GeV	No	dune_mcc9		mazzacane	2017-04-30 08:14:24
<input type="checkbox"/>	mcc9_gen_G4_detsim_protoDune_beam_cosmics_p6GeV	No	dune_mcc9		mazzacane	2017-04-30 08:13:44
<input type="checkbox"/>	mcc9_mergeana_protoDune_beam_cosmics_p6GeV	No	dune_mcc9		mazzacane	2017-04-30 08:15:05

Selected Campaign Stages ?

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dune

production



		Jobs in 62.0 days ending 2017-06-30 00:00								
Name	Campaign Stage ?	Total All	Active Jobs			Completed			Stats	
			Idle ?	Running ?	Held ?	Total ?	Not Located ?	Located ?	Removed ?	%Efficiency ? Pending ?
mcc9_mergeana_protoDune_beam_cosmics_p4GeV		206	0	0	0	206	0	206	0	64 0
mcc9_reco_protoDune_beam_cosmics_p4GeV		415	0	0	0	415	0	415	0	110 0
mcc9_gen_G4_detsim_protoDune_beam_cosmics_p4GeV		407	0	0	0	407	0	407	0	58 0

# Campaign Stage Info

## Campaign Stage Info ?

Campaign Stage mcc9\_gen\_G4\_detsim\_protoDune\_beam\_cosmics\_p3GeV

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dune

production

Total	Active Campaign Jobs			Jobs in 278.2 days ending 2018-02-02 06:24:29			Stats		
All ?	Idle ?	Running ?	Held ?	Total Completed ?	Not Located ?	Located ?	Removed ?	%Efficiency ?	Pending ?
405	0	0	0	405	0	405	0	63	0

### Reports/Status

- Job Efficiency Histogram (1 month)
- Job Wall Clock Time Histogram (1 month)
- Job CPU Time Histogram (1 month)
- Copy In Time Histogram (1 month)
- Job Copy Out Time Histogram
- Day by Day Spreadsheet (1wk)
- Submission Time Bars (1wk)
- Campaign Submission Files
- Kibana Usage Info for Campaign

### Actions

- Edit Campaign
- Launch Campaign Jobs Now
- Kill running/idle Jobs for Campaign
- Hold running/idle Jobs for Campaign
- Release held Jobs for Campaign
- Schedule Future Job Launches
- Mark Campaign Active

### Tags

Enter tag

dune\_mcc9

# Campaign Stage Info (cont'd)

## Campaign

**Name:** mcc9\_gen\_G4\_detsim\_protoDune\_beam\_cosmics\_p3GeV

**Experiment:** dune


**Dataset:** none

**Software Version:** v06\_33\_00\_01

**VO Role:** Production

**cs\_split\_type:** none

**cs\_split\_dimensions:** None

**cs\_last\_split:** None 

**Active:** False

**Created:** 2017-04-29 20:36:56.229675-05:00

**Creator:** mazzacan

**Updated:** None

**Updater:** mazzacan

## Job Type

**Name:** mcc9\_protodune\_detsim\_3GeV

**Launch Script:** /dune/app/home/dunepro/anna/MCC9/mcc9\_SubmissionScriptNew.sh

**Definition Parameters:** [  
['ProtoDUNE\_beam\_3GeV\_cosmics\_3ms.xml', '']  
['detsim', '']]

**Input Files Per Job:** 0

**Output Files Per Job:** 0

**Output File Patterns:** %.root

**Creator:** mazzacan

**Created:** 2017-04-29 20:33:16.509874-05:00

**Updater:** mazzacan

**Updated:** None

## Launch Template

**Name:** mcc9\_protodune

**Experiment:** dune

**Launch Host:** dunegpvm01.fnal.gov

**Launch Account:** dunepro

**Launch Setup:** export X509\_USER\_PROXY=/opt/dunepro/dunepro.Production.proxy; source  
/cvmfs/dune.opensciencegrid.org/products/dune/setup\_dune.sh; setup dunetpc v06\_33\_00\_01 -q e14:prof

**Creator:** mazzacan

**Created:** 2017-04-24 10:45:18.216718-05:00

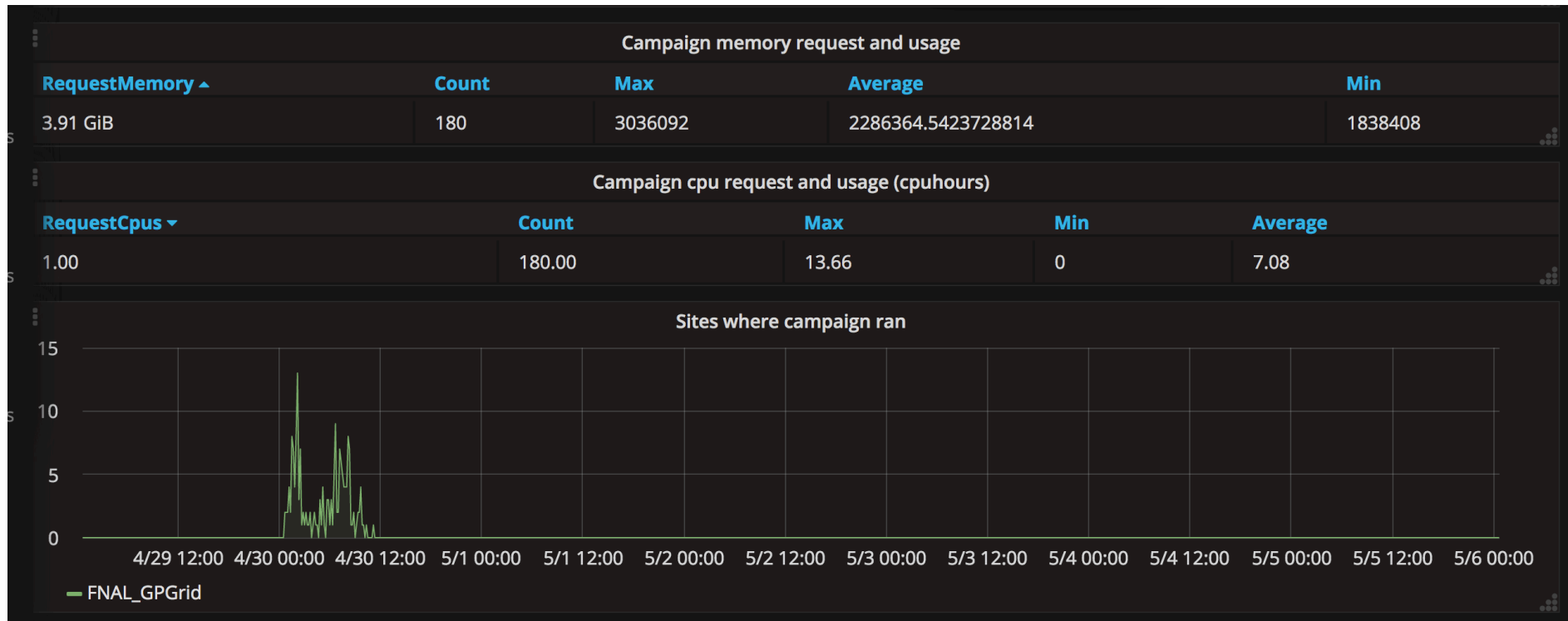
**Updater:** mazzacan

**Updated:** 2017-04-26 12:43:23.738891-05:00

GNU Image Manipul...

# Fifemon Monitoring

## ➤ Campaign stage profiling



# Troubleshooting

Jobs by node\_name,user\_exe\_exit\_code,name,experiment,count ?

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2017-04-29 00:00 to 2017-05-06 00:00

<previous 7.0 days | next 7.0 days >

dune

production



node\_name

user\_exe\_exit\_code

name

experiment

Submit

node_name	user_exe_exit_code	name	experiment	count
fnpc9051.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p3GeV_sce	dune	9
fnpc4101.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p3GeV_sce	dune	8
fnpc8011.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p3GeV_sce	dune	7
fnpc8017.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p3GeV_sce	dune	6
fnpc7013.fnal.gov	139	mcc9_gen_G4_detsim_protoDune_beam_cosmics_p6GeV_sce	dune	1
fnpc7022.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p5GeV_sce	dune	1
fnpc5013.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p-1GeV	dune	1
fnpc6004.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p1GeV_sce	dune	1
fnpc9019.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p-1GeV	dune	1
fnpc8026.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p5GeV_sce	dune	1
fnpc9054.fnal.gov	1	mcc9_reco_protoDune_beam_cosmics_p5GeV_sce	dune	1

# Configure POMS

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- Two configuration models implemented into POMS:
  - Through a submission script that takes all configurations needed for the job submission and data handling
  - Through a configuration file that takes all info needed for the job submission and data handling



**Highly recommended**

## 15

SubmitTestTest

# Schedule A Submission

## Campaign Launch Schedule ?

### Current Crontab Entry

```
10 0,2,4,6,8,10,12,14,16,18,20,22 * * * /home/poms/products/poms/current/cron/launcher --campaign_id=42 # POMS_CAMPAIGN_ID=42
```

### Update Entry form

Minutes(s) of the hour:

Hour(s) of day:

Day(s) of week:

☒ Any ☐ Sunday ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday

Day(s) of Month:



# POMS Online Documentation

## Job

An individual batch-system job, part of a given Task's job submission, which associated with a Campaign. POMS ignores jobs which are not part of a Campaign. Jobs are considered to be in one of 5 high level states:

- Idle -- The job is waiting to be scheduled somewhere by the batch system
- Running -- The job has been started by the batch system, and is still running
- Completed -- the job has finished running
- Held -- the batch system has stopped the job for some reason (using too much memory, etc)
- Located -- the job was not only completed, but its output files have locations in the data handling system.

where the first 4 are the usual states are defined by Condor, and the fifth is peculiar to POMS. Within the Running state, there may be more details logged; i.e. "Running: running user executable", "Running: copying in files", etc. where these can be determined from the ifdh joblogs.

## Service

A system that we depend on to run jobs, whose status is in some way determinable.

## Job Type

(Task Definition/Campaign (layer) Definition)

All the info you need to run a particular category of job -- i.e. "how do I launch a NOvA montecarlo job" or "how do I launch a Minerva calibration keepup job". This is filled in with information from a given Campaign to know how to run a submit a given Task.

## Submission

(Task)

A specific multi-job launch. It has a specific command line used to launch it, and it may have output files for whose appearance we await in the data handling system before we declare the task complete. It has states defined in terms of the jobs it generates as follows:

- Idle -- all of its jobs are Idle
- Running -- one or more of its jobs are Running
- Completed -- all of its jobs are Completed or Declared
- Located -- all of its jobs are Located

If another Submission in (another Campaign Layer) needs the output of this one to be launched, it must wait for this task to be in state "Located" before launching; or if the Submissions are generated with a Draining dataset definition, one waits for the previous task for this Campaign to complete before launching another.

# References

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POMS redmine project:

<https://cdcv.s.fnal.gov/redmine/projects/poms/>

POMS team mailing list:

[poms\\_team@fnal.gov](mailto:poms_team@fnal.gov)

POMS production instance of POMS:

<https://pomsgpvm01.fnal.gov/poms/>

Marc Mengel's presentation at FIFE workshop 2016:

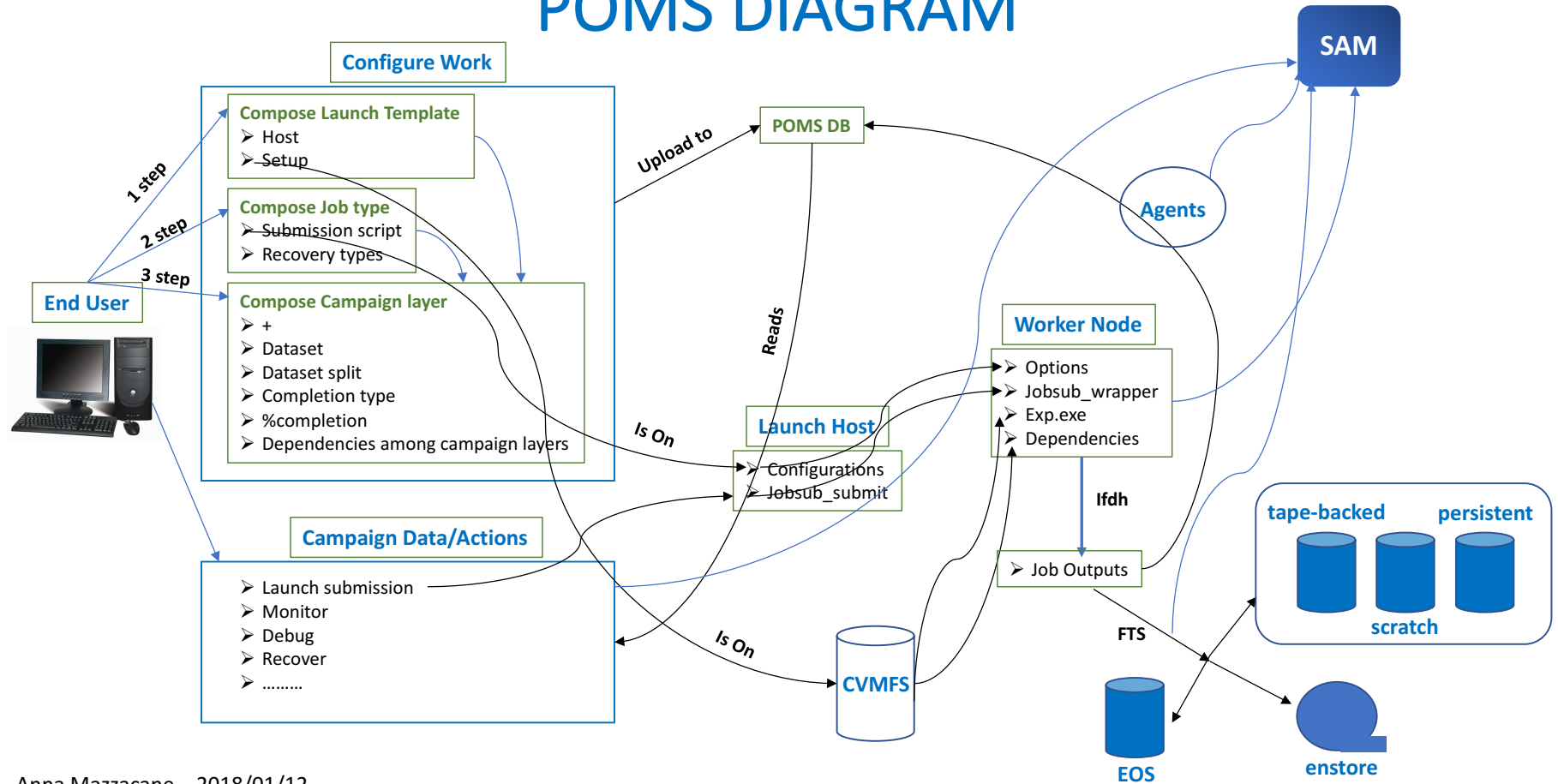
<https://indico.fnal.gov/getFile.py/access?contribId=8&resId=0&materialId=slides&confId=12120>

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# Thank You

# Backup Slides

## POMS DIAGRAM



Anna Mazzacane – 2018/01/12



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## **SBND, ICARUS and POMS Update**

Anna Mazzacane

February 14, 2018

# Overview

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- Last time I did an overview of POMS and showed some of the many features implemented in POMS
- Since then POMS has implemented a workflow example that doesn't use project.py, but allows to go through all the production steps using the FIFE toolkit.
- SBND and ICARUS can tune this workflow in order to meet the experiment needs for MC production
- In this slides, I will show:
  - How to configure POMS
  - Workflow example for SBND
  - Issues found and solved – NOT depending on POMS
  - Existing documentation
- Q&A

# How To Configure POMS

---

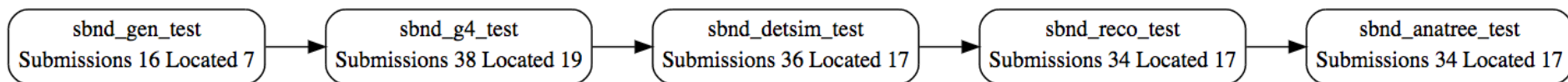
- Last time I mentioned there are two configuration models to interface to POMS:
  - Through a submission script that takes all configurations needed for the job submission and data handling
  - Through a configuration file that handles all info needed for the job submission and data handling
- Both are passed to POMS through the web interface.
- Future plans will allow users to also interface to POMS client and launch jobs through a command line and have POMS tracking, debugging and monitoring them.

**Highly recommended**

# How To Configure POMS – Step by Step

- I will show step by step how to configure POMS for a general MC production workflow using:
  - A configuration file to interface with POMS
- It's a two steps configuration:
  - Edit the configuration file
  - Create the POMS Campaign stages

## ➤ Example of SBND worflow tested:





# How To Configure POMS – step 1

---

1. Edit the configuration file:

➤ **Example:** `/sbnd/app/home/poms_test/cfg/sbnd_launch.cfg`

# Example of Configuration File

---

## # demo config

### [global]

```
group          = sbnd
experiment     = sbnd
wrapper        = file:///\$\(FIFE\_UTILS\_DIR\)/libexec/fife\_wrap
version        = v06_48_00_MCC
quals          = e14:prof
fclfile        = override_me.
fclbasename=gen
```

### [env\_pass]

```
IFDH_DEBUG      = 1
SAM_EXPERIMENT  = %(experiment)s
SAM_GROUP       = %(group)s
SAM_STATION     = %(experiment)s
```

### [submit]

```
G               = %(group)s
N               = 5
#dataset        = %(dataset)s -- will override this on processing stages
resource-provides = usage_model=OPPORTUNISTIC,DEDICATED,OFFSITE
generate-email-summary = True
expected-lifetime = 3h
#disk           = 10GB
memory          = 2000MB
```

# Example of Configuration File (cont'd)

## **[job\_setup]**

```
debug      = True
find_setups = True
source_1   = /cvmfs/sbnd.opensciencegrid.org/products/sbnd/setup_sbnd.sh
setup_1     = sbndcode %(version)s -q %(quals)s
#multifile  = True -- may override this on processing stages
#getconfig  = False
#ifdh_art   = False
```

## **[sam\_consumer]**

```
limit      = 1
appvers     = %(version)s
```

## **[executable]**

```
name       = lar
arg_1      = -c
arg_2      = %(fclfile)s
arg_3      = -o
arg_4      = %(basename)s.root
arg_5      = -s
#arg_6     = input_filename -- will be added by multifile loop...
```

## **[job\_output]**

```
addoutput      = %(basename)s.root
rename         = unique
dest           = /pnfs/sbnd/scratch/sbndpro/poms_test/
declare_metadata = True
metadata_extractor=sam_metadata_dumper
# add_to_dataset = _poms_task -- override this on on the gen stage(s)
add_location    = True
```

# How To Configure POMS – step 2

---

## 1. Create POMS Campaign Stages:

- **Examples: sbnd\_gen\_test, sbnd\_g4\_test, sbnd\_detsim\_test, sbnd\_reco\_test, sbnd\_anatree\_test**

# Create POMS Campaign Stages – Login

## 1. Log into POMS

<https://pomsgpvm01.fnal.gov/poms/>



Please enter your SERVICES user name and password.

Username

Password

Sign On

Fermilab [Disclaimer](#)

- Use services account to login
- Need an experiment affiliation and computing permissions to submit jobs – **Ask your experiment production coordinator**

# Create POMS Campaign Stages – Home

POMS

Search...

Calendar

External Links

Administration

Campaign Data

Configure Work

Jobs

Dashboard ?

See everything up and running in real time

Services

Job launches: allowed

fifemon\_DCache (0/2) ✓

fifemon\_FifeBatch (0/2) ✓

fifemon\_SAM (0/4) ✓

fndca\_DCache (5/13) ✗

Key:

Good Component (0/total) ✓

Warn Component (num\_failed/total) ⚠

Failed Component (num\_failed/total) ✗

Unknown Component (0/total) ⓘ

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sbnd

production

# Create POMS Campaign Stages – Compose

Screenshot of the POMS Dashboard interface.

**Dashboard ?**  
See everything up and running in real time

**Services**

Job launches: allowed ▶ Allow ■ Hold

▶ <b>fifemon_DCache (0/2) ✓</b>
▶ <b>fifemon_FifeBatch (0/2) ✓</b>
▶ <b>fifemon_SAM (0/4) ✓</b>
▶ <b>fndca_DCache (5/13) ✗</b>

**Key:**

<b>Good Component (0/total) ✓</b>	<b>Warn Component (num_failed/total) ⚠</b>	<b>Failed Component (num_failed/total) ✗</b>	<b>Unknown Component (0/total) ?</b>
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**Left Sidebar:**

- POMS
- Search...
- Calendar
- External Links
  - Sbnd Logbook
  - POMS ServiceNow Page
- Administration
  - Experiments
  - Users
  - Raw Tables
- Campaign Data
  - Tagged Campaigns
  - Campaign Stages
- Configure Work
  - Compose Launch Template
  - Compose Job Type
  - Compose Campaign Stages
- Jobs
  - All (La: and Campaign Stage Name (Last Day)
  - Failed\_By Exit Code and Campaign Stage Name (Last Week)
  - Failed\_By Exit Code and Node Name (Last Day)
  - Failed\_By Exit Code and CPU Type (Last Day)

**Annotation:** A hand icon with the word "click" points to the "Jobs" section in the sidebar.

# Create POMS Campaign Stages – Compose

**Campaign Stages** ?

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sbnd production

☒ Active ☐ Inactive ☐ All

	Name ?	Active ?	VO Role ?	Software Version ?	Dataset ?	Split Type ?	Completion Type ?	Completion Percent ?	Parameter Overrides ?
	sbnd_gen_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml": "prodgenie_nu_singleinteract
	dev_sbnd_mcc_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile": "prodgenie_nu_sing
	sbnd_reco_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile": "standard_reco_sbr
	sbnd_detsim_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile": "standard_detsim_s
	sbnd_anatree_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile": "standard_anatree
	sbnd_mcc_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile": "prodgenie_nu_sing
	sbnd_g4_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml": "prodgenie_nu_singleinteract
	sbnd_detsim_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml": "prodgenie_nu_singleinteract
	sbnd_anatree_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml": "prodgenie_nu_singleinteract
	sbnd_reco_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml": "prodgenie_nu_singleinteract
	sbnd_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile": "prodgenie_nu_sing
	sbnd_g4_test	True	Production	v06_48_00_MCC	poms_depends_41209_1	None	complete	95	[{"Oglobal.fcfile": "standard_g4_sbnd

Add

➤ You can Add, Edit, Clone and Delete



# Create POMS Campaign Stages – Clone

https://pomsgpvm01.fnal.gov/ x Anna

Secure | https://pomsgpvm01.fnal.gov/poms/campaign\_edit

Apps NCIS Unità Anticrimi... Colloquium "From P... Fermilab CASA Login Buddismo Giornali Auto Ricette Salute Film Tools CorsiOnLine Marco Lavoro You Tube Viaggi Assicurazioni on line... Other Bookmarks

POMS

POMS

Search...

Calendar

External Links

Sbnd Logbook

POMS ServiceNow Page

Administration

Experiments

Users

Raw Tables

Campaign Data

Tagged Campaigns

Campaign Stages

Configure Work

Compose Launch Template

Compose Job Type

Compose Campaign Stages

Jobs

All (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Week)

Failed\_By Exit Code and Node Name (Last Day)





































Failed\_By Exit Code and CPU Type (Last Day)

Campaign Stages ?

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sbnd production

☒ Active ☐ Inactive ☐ All

	Name ?	Active ?	VO Role ?	Software Version ?	Dataset ?	Split Type ?	Completion Type ?	Completion Percent ?	Parameter Overrides ?
  	sbnd_gen_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml ","prodgenie_nu_singleinteract
  	dev_sbnd_mcc_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile=","prodgenie_nu_sing
  	sbnd_reco_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile=","standard_reco_sbr
  	sbnd_detsim_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile=","standard_detsim_s
  	sbnd_anatree_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile=","standard_anatree.
  	sbnd_mcc_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile=","prodgenie_nu_sing
  	sbnd_g4_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml ","prodgenie_nu_singleinteract
  	sbnd_detsim_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml ","prodgenie_nu_singleinteract
  	sbnd_anatree_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml ","prodgenie_nu_singleinteract
  	sbnd_reco_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml ","prodgenie_nu_singleinteract
  	sbnd_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile=","prodgenie_nu_sing
  	sbnd_g4_test	True	Production	v06_48_00_MCC	poms_depends_41209_1	None	complete	95	[{"Oglobal.fcfile=","standard_g4_sbnd

click

# Create POMS Campaign Stages – Clone

- Change the Name
- Overrides Parameter of the configuration file (if needed)
- Create a dependency (for example, g4 stage depends on gen stage)
- Choose the Launch Template and Job Type from the drop down menu
- Click Clone

Campaign Stage Editor (sbnd)

Name ?	VO Role ?	State ?	Exp. Software Version ?
CLONE OF: sbnd_	Production	Active	v06_48_00_MCC

Dataset ?	Dataset Split Type ?
None	None

Completion Type ?	Completion % ?
Complete	100

Parameter Overrides ?

```
[{"-Oglobal.fcfile=", "prodgenie_nu_singleinteraction_cryostat_gsimple-config-v1.fc"}, {"-Osubmit.N=", "10"}, {"-Oexecutable.arg_5=", "n15"}]
```

Depends On ?

```
[{"campaigns": [], "file_patterns": []}]
```

LAUNCH TEMPLATE

Launch Template ?

sbnd\_launch\_test\_1

Host ?	Account ?
sbndgpvm01.fnal.gov	sbndpro

Setup ?

```
export X509_USER_PROXY=/opt/sbndpro/sbndpro.Production.proxy;  
setup fife_utils v3_2_0, poms_client , poms_jobsub_wrapper
```

JOB TYPE

Job Type ?

sbnd\_gen\_fife\_launch\_test

Input Files/Job ?	Output Files/Job ?
0	0

Launch Script ?	Definition Parameters ?
fife_launch -c /sbnd/app/home/poms_test/cfg/sbnd_launch.cf g	-Oexecutable.arg_5=, Ojob_output.add_to_dataset=_poms_task, Oglobal.fcfile=prodgenie_nu_singleinteracti on_cryostat_gsimple-config-v1.fc

Cancel Clone



# Create POMS Campaign Stages – Run



https://pomsgpvm01.fnal.gov/ x Anna

Secure | https://pomsgpvm01.fnal.gov/poms/campaign\_edit

Apps NCIS Unità Anticrimi... Colloquium "From P... Fermilab CASA Login Buddismo Giornali Auto Ricette Salute Film Tools CorsiOnline Marco Lavoro You Tube Viaggi Assicurazioni on line... Other Bookmarks

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Compose Launch Template

Compose Job Type

Compose Campaign Stages

**Jobs**

All (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Week)

Failed\_By Exit Code and Node Name (Last Day)

Failed\_By Exit Code and CPU Type (Last Day)

**Campaign Stages ?**

Anna Mazzacane

sbnd production

☒ Active ☐ Inactive ☐ All

	Name ?	Active ?	VO Role ?	Software Version ?	Dataset ?	Split Type ?	Completion Type ?	Completion Percent ?	Parameter Overrides ?
	sbnd_gen_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml", "prodgenie_nu_singleinteract
	dev_sbnd_mcc_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile=", "prodgenie_nu_sing
	sbnd_reco_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile=", "standard_reco_sbr
	sbnd_detsim_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile=", "standard_detsim_s
	sbnd_anatree_test	True	Production	v06_48_00_MCC	from_parent	None	complete	95	[{"Oglobal.fcfile=", "standard_anatree.
	sbnd_mcc_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile=", "prodgenie_nu_sing
	sbnd_g4_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml", "prodgenie_nu_singleinteract
	sbnd_detsim_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml", "prodgenie_nu_singleinteract
	sbnd_anatree_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml", "prodgenie_nu_singleinteract
	sbnd_reco_poms_test2	True	Production	v06_48_00_MCC	None	None	complete	100	[{"-xml", "prodgenie_nu_singleinteract
	sbnd_gen_test	True	Production	v06_48_00_MCC	None	None	complete	100	[{"Oglobal.fcfile=", "prodgenie_nu_sing
	sbnd_g4_test	True	Production	v06_48_00_MCC	poms_depends_41209_1	None	complete	95	[{"Oglobal.fcfile=", "standard_g4_sbnd

Add

# Create POMS Campaign Stages – Run

https://pomsgpvm01.fnal.gov/ x Anna

Secure https://pomsgpvm01.fnal.gov/poms/show\_campaigns

Apps NCIS Unità Anticrim... Colloquium "From P... Fermilab CASA Login Buddismo Giornali Auto Ricette Salute Film Tools CorsiOnLine Marco Lavoro You Tube Viaggi Assicurazioni on line... International Master... CERN Users' pages » Other Bookmarks

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All (Last Day)  
Failed\_By Exit Code and Campaign Stage Name (Last Day)  
Failed\_By Exit Code and Campaign Stage Name (Last Week)  
Failed\_By Exit Code and Node Name (Last Day)  
Failed\_By Exit Code and CPU Type(Last Day)

## Campaign Stages ?

Anna Mazzacane

sbnd production

Mark Campaigns Active/Inactive Tag/Untag Campaigns Hold/Release Campaign Submission Show ALL Campaigns Statistics

Select All	Name	Active	Tags	Hold By	Creator	Created
<input type="checkbox"/>	dev_sbnd_mcc_gen_test	Yes			mazzacan	2018-02-01 16:27:13
<input type="checkbox"/>	sbnd_mcc_gen_test	Yes			mengel	2018-02-08 13:56:31
<input type="checkbox"/>	sbnd_gen_test	Yes	mcc_test_1		mengel	2018-02-08 15:16:33
<input type="checkbox"/>	sbnd_anatree_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-08 08:21:24
<input type="checkbox"/>	sbnd_reco_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-08 08:19:42
<input type="checkbox"/>	sbnd_detsim_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-08 08:18:34
<input type="checkbox"/>	sbnd_g4_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-07 18:54:02
<input type="checkbox"/>	sbnd_gen_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-01 22:18:02
<input type="checkbox"/>	sbnd_g4_test	Yes	mcc_test_1		mengel	2018-02-07 13:31:09
<input type="checkbox"/>	sbnd_anatree_test	Yes	mcc_test_1		mengel	2018-02-07 13:28:09
<input type="checkbox"/>	sbnd_detsim_test	Yes	mcc_test_1		mengel	2018-02-07 13:28:43
<input type="checkbox"/>	sbnd_reco_test	Yes	mcc_test_1		mengel	2018-02-07 13:30:14

# Create POMS Campaign Stages – Run

https://pomsgpvm01.fnal.gov/ x Anna

Secure https://pomsgpvm01.fnal.gov/poms/show\_campaigns

Apps NCIS Unità Anticrim... Colloquium "From P... Fermilab CASA Login Buddismo Giornali Auto Ricette Salute Film Tools CorsiOnLine Marco Lavoro You Tube Viaggi Assicurazioni on line... International Master... CERN Users' pages Other Bookmarks

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All (Last Day)  
Failed\_By Exit Code and Campaign Stage Name (Last Day)  
Failed\_By Exit Code and Campaign Stage Name (Last Week)  
Failed\_By Exit Code and Node Name (Last Day)  
Failed\_By Exit Code and CPU Type(Last Day)

Campaign Stages ?

Anna Mazzacane

sbnd production

Mark Campaigns Active/Inactive Tag/Untag Campaigns Hold/Release Campaign Submission Show ALL Campaigns Statistics

Select All	Name	Active	Tags	Hold By	Creator	Created
<input type="checkbox"/>	dev_sbnd_mcc_gen_test	Yes			mazzacan	2018-02-01 16:27:13
<input type="checkbox"/>	sbnd_mcc_gen_test	Yes			mengel	2018-02-08 13:56:31
<input type="checkbox"/>	sbnd_gen_test	Yes	mcc_test_1		mengel	2018-02-08 15:16:33
<input type="checkbox"/>	sbnd_anatree_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-08 08:21:24
<input type="checkbox"/>	sbnd_reco_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-08 08:19:42
<input type="checkbox"/>	sbnd_detsim_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-08 08:18:34
<input type="checkbox"/>	sbnd_g4_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-07 18:54:02
<input type="checkbox"/>	sbnd_gen_poms_test2	Yes	mcc_test_2		mazzacan	2018-02-01 22:18:02
<input type="checkbox"/>	sbnd_g4_test	Yes	mcc_test_1		mengel	2018-02-07 13:31:09
<input type="checkbox"/>	sbnd_anatree_test	Yes	mcc_test_1		mengel	2018-02-07 13:28:09
<input type="checkbox"/>	sbnd_detsim_test	Yes	mcc_test_1		mengel	2018-02-07 13:28:43
<input type="checkbox"/>	sbnd_reco_test	Yes	mcc_test_1		mengel	2018-02-07 13:30:14

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Failed\_By Exit Code and Campaign Stage Name (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Week)

Failed\_By Exit Code and Node Name (Last Day)

Failed\_By Exit Code and CPU Type (Last Day)

Campaign Stage Info ?

Campaign Stage sbnd\_gen\_test

Anna Mazzacane

sbnd production

Total	Active Campaign Jobs			Jobs in 5.1 days ending 2018-02-13 23:37:35			Stats		
All ?	Idle ?	Running ?	Held ?	Total Completed ?	Not Located ?	Located ?	Removed ?	%Efficiency ?	Pending ?
70	0 ?	0	0	70	65	5	0	0	0

Reports/Status

[Job Efficiency Histogram \(1 month\)](#)  
[Job Wall Clock Time Histogram \(1 month\)](#)  
[Job CPU Time Histogram \(1 month\)](#)  
[Copy In Time Histogram \(1 month\)](#)  
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[Hold running/idle Jobs for Campaign](#)  
[Release held Jobs for Campaign](#)  
[Schedule Future Job Launches](#)  
[Mark Campaign Inactive](#)

Tags

Enter tag +

mcc\_test\_1

Campaign

Name: sbnd\_gen\_test  
Experiment: sbnd  
Dataset: None  
Software Version: v06\_48\_00\_MCC  
VO Role: Production  
Param Overrides: [ '-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc' ]  
[ '-Osubmit.N=', '10' ]  
[ '-Oexecutable.arg\_5=', 'n15' ]  
cs\_split\_type: None  
cs\_split\_dimensions: None  
cs\_last\_split: None Reset  
Active: True  
Created: 2018-02-08 15:16:33.375074-06:00  
Creator: mengel  
Updated: 2018-02-08 16:22:23.859766-06:00  
Updater: mengel

Job Type

Name: sbnd\_gen\_fife\_launch\_test  
Launch Script: fife\_launch -c /sbnd/app/home/poms\_test/cfg/sbnd\_launch.cfg  
Definition Parameters: [ '-Oexecutable.arg\_5=', '1' ]  
[ '-Ojob\_output.add\_to\_dataset=', 'poms\_task' ]  
[ '-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc' ]  
Input Files Per Job: 0  
Output Files Per Job: 0  
Output File Patterns: %root  
Creator: mazzacan  
Created: 2018-02-01 16:09:49.042078-06:00  
Updater: mazzacan  
Updated: 2018-02-07 13:25:37.148102-06:00

Launch Template

Name: sbnd\_launch\_test\_1  
Experiment: sbnd  
Launch Host: sbndgvm01.fnal.gov  
Launch Account: sbndpro  
Launch Setup: export X509\_USER\_PROXY=/opt/sbndpro/sbndpro.Production.proxy; setup fife\_utils v3\_2\_0, poms\_client , poms\_jobsub\_wrapper  
Creator: mazzacan  
Created: 2018-02-01 15:50:09.308688-06:00

dbweb01.fnal.gov/ECL/sbnd

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All (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Week)

Failed\_By Exit Code and Node Name (Last Day)

Failed\_By Exit Code and CPU Type (Last Day)

Campaign Stage Info ?

Campaign Stage sbnd\_gen\_test

Anna Mazzacane

sbnd production

Total	Active Campaign Jobs			Jobs in 5.1 days ending 2018-02-13 23:37:35			Stats		
All ?	Idle ?	Running ?	Held ?	Total Completed ?	Not Located ?	Located ?	Removed ?	%Efficiency ?	Pending ?
70	0 ?	0	0	70	65	5	0	0	0

Reports/Status

[Job Efficiency Histogram \(1 month\)](#)  
[Job Wall Clock Time Histogram \(1 month\)](#)  
[Job CPU Time Histogram \(1 month\)](#)  
[Copy In Time Histogram \(1 month\)](#)  
[Job Copy Out Time Histogram](#)  
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[Kill running/idle Jobs for Campaign](#)  
[Hold running/idle Jobs for Campaign](#)  
[Release held Jobs for Campaign](#)  
[Schedule Future Job Launches](#)  
[Mark Campaign Inactive](#)

Tags

Enter tag +

mcc\_test\_1

Campaign

Name: sbnd\_gen\_test  
Experiment: sbnd  
Dataset: None  
Software Version: v06\_48\_00\_MCC  
VO Role: Production  
Param Overrides: [ '-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc' ]  
[ '-Osubmit.N=', '10' ]  
[ '-Oexecutable.arg\_5=', 'n15' ]  
cs\_split\_type: None  
cs\_split\_dimensions: None  
cs\_last\_split: None Reset  
Active: True  
Created: 2018-02-08 15:16:33.375074-06:00  
Creator: mengel  
Updated: 2018-02-08 16:22:23.859766-06:00  
Updater: mengel

Job Type

Name: sbnd\_gen\_fife\_launch\_test  
Launch Script: fife\_launch -c /sbnd/app/home/poms\_test/cfg/sbnd\_launch.cfg  
Definition Parameters: [ '-Oexecutable.arg\_5=', '' ]  
[ '-Ojob\_output.add\_to\_dataset=', 'poms\_task' ]  
[ '-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc' ]  
Input Files Per Job: 0  
Output Files Per Job: 0  
Output File Patterns: %root  
Creator: mazzacan  
Created: 2018-02-01 16:09:49.042078-06:00  
Updater: mazzacan  
Updated: 2018-02-07 13:25:37.148102-06:00

Launch Template

Name: sbnd\_launch\_test\_1  
Experiment: sbnd  
Launch Host: sbndgvm01.fnal.gov  
Launch Account: sbndpro  
Launch Setup: export X509\_USER\_PROXY=/opt/sbndpro/sbndpro.Production.proxy; setup fife\_utils v3\_2\_0, poms\_client, poms\_jobsub\_wrapper  
Creator: mazzacan  
Created: 2018-02-01 15:50:09.308688-06:00

dbweb01.fnal.gov/ECL/sbnd

# Create POMS Campaign Stages – Schedule

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Failed\_By Exit Code and Campaign Stage Name (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Week)

Failed\_By Exit Code and Node Name (Last Day)

Failed\_By Exit Code and CPU Type (Last Day)

Campaign Stage Info ?

Campaign Stage sbnd\_gen\_test

Anna Mazzacane

sbnd production

Total	Active Campaign Jobs			Jobs in 5.1 days ending 2018-02-13 23:37:35			Stats		
All ?	Idle ?	Running ?	Held ?	Total Completed ?	Not Located ?	Located ?	Removed ?	%Efficiency ?	Pending ?
70	0 ?	0	0	70	65	5	0	0	0

Reports/Status

[Job Efficiency Histogram \(1 month\)](#)  
[Job Wall Clock Time Histogram \(1 month\)](#)  
[Job CPU Time Histogram \(1 month\)](#)  
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Actions

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[Kill running/idle Jobs for Campaign](#)  
[Hold running/idle Jobs for Campaign](#)  
[Release held Jobs for Campaign](#)  
[Schedule Future Job Launches](#)  
[Mark Campaign Inactive](#)

Tags

Enter tag +

mcc\_test\_1

Campaign

Name: sbnd\_gen\_test

Experiment: sbnd

Dataset: None

Software Version: v06\_48\_00\_MCC

VO Role: Production

Param Overrides: [ '-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc' ]

[-Osubmit.N=', '10']

[-Oexecutable.arg\_5=', 'n15'] ]

cs\_split\_type: None

cs\_split\_dimensions: None

cs\_last\_split: None Reset

Active: True

Created: 2018-02-08 15:16:33.375074-06:00

Creator: mengel

Updated: 2018-02-08 16:22:23.859766-06:00

Updater: mengel

Job Type

Name: sbnd\_gen\_fife\_launch\_test

Launch Script: fife\_launch -c /sbnd/app/home/poms\_test/cfg/sbnd\_launch.cfg

Definition Parameters: [ '-Oexecutable.arg\_5=', '' ]

[-Ojob\_output.add\_to\_dataset=', 'poms\_task']

[-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc'] ]

Input Files Per Job: 0

Output Files Per Job: 0

Output File Patterns: %root

Creator: mazzacan

Created: 2018-02-01 16:09:49.042078-06:00

Updater: mazzacan

Updated: 2018-02-07 13:25:37.148102-06:00

Launch Template

Name: sbnd\_launch\_test\_1

Experiment: sbnd

Launch Host: sbndgvm01.fnal.gov

Launch Account: sbndpro

Launch Setup: export X509\_USER\_PROXY=/opt/sbndpro/sbndpro.Production.proxy; setup fife\_utils v3\_2\_0, poms\_client , poms\_jobsub\_wrapper

Creator: mazzacan

Created: 2018-02-01 15:50:09.308688-06:00

click

Anna Mazzacane

sbnd production

Total	Active Campaign Jobs			Jobs in 5.1 days ending 2018-02-13 23:37:35			Stats		
All ?	Idle ?	Running ?	Held ?	Total Completed ?	Not Located ?	Located ?	Removed ?	%Efficiency ?	Pending ?
70	0 ?	0	0	70	65	5	0	0	0

Reports/Status

[Job Efficiency Histogram \(1 month\)](#)  
[Job Wall Clock Time Histogram \(1 month\)](#)  
[Job CPU Time Histogram \(1 month\)](#)  
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[Hold running/idle Jobs for Campaign](#)  
[Release held Jobs for Campaign](#)  
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[Mark Campaign Inactive](#)

Tags

Enter tag +

mcc\_test\_1

Campaign

Name: sbnd\_gen\_test

Experiment: sbnd

Dataset: None

Software Version: v06\_48\_00\_MCC

VO Role: Production

Param Overrides: [ '-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc' ]

[-Osubmit.N=', '10']

[-Oexecutable.arg\_5=', 'n15'] ]

cs\_split\_type: None

cs\_split\_dimensions: None

cs\_last\_split: None Reset

Active: True

Created: 2018-02-08 15:16:33.375074-06:00

Creator: mengel

Updated: 2018-02-08 16:22:23.859766-06:00

Updater: mengel

Job Type

Name: sbnd\_gen\_fife\_launch\_test

Launch Script: fife\_launch -c /sbnd/app/home/poms\_test/cfg/sbnd\_launch.cfg

Definition Parameters: [ '-Oexecutable.arg\_5=', '' ]

[-Ojob\_output.add\_to\_dataset=', 'poms\_task']

[-Oglobal.fcfile=', 'prodgenie\_nu\_singleinteraction\_cryostat\_gsimple-config-v1.fc'] ]

Input Files Per Job: 0

Output Files Per Job: 0

Output File Patterns: %root

Creator: mazzacan

Created: 2018-02-01 16:09:49.042078-06:00

Updater: mazzacan

Updated: 2018-02-07 13:25:37.148102-06:00

Launch Template

Name: sbnd\_launch\_test\_1

Experiment: sbnd

Launch Host: sbndgvm01.fnal.gov

Launch Account: sbndpro

Launch Setup: export X509\_USER\_PROXY=/opt/sbndpro/sbndpro.Production.proxy; setup fife\_utils v3\_2\_0, poms\_client , poms\_jobsub\_wrapper

Creator: mazzacan

Created: 2018-02-01 15:50:09.308688-06:00

Anna Mazzacane

sbnd production

Fermilab

40

POMS Update – ICARUS & SBND - February 14, 2018



# Create POMS Campaign Stages – Schedule

## Campaign Launch Schedule ?

### Current Crontab Entry

```
10 0,2,4,6,8,10,12,14,16,18,20,22 * * * /home/poms/products/poms/current/cron/launcher --campaign_id=42 # POMS_CAMPAIGN_ID=42
```

### Update Entry form

Minutes(s) of the hour:

Hour(s) of day:

Day(s) of week:

☒ Any ☐ Sunday ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday

Day(s) of Month:

Submit

Delete

Fill

# Create POMS Campaign Stages – Schedule

## Campaign Launch Schedule ?

### Current Crontab Entry

```
10 0,2,4,6,8,10,12,14,16,18,20,22 * * * /home/poms/products/poms/current/cron/launcher --campaign_id=42 # POMS_CAMPAIGN_ID=42
```

### Update Entry form

Minutes(s) of the hour:

Hour(s) of day:

Day(s) of week:

☒ Any ☐ Sunday ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday

Day(s) of Month:

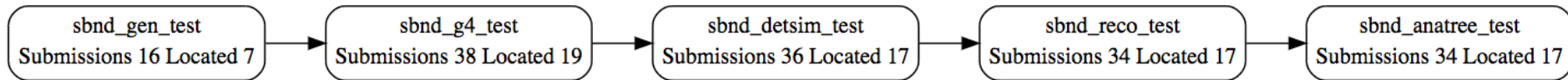
Submit

Delete



# Workflow Example for SBND

- We successfully ran the following workflow for SBND



- Each stage of the workflow takes a SAM dataset input with the output files of the previous stage
- Each stage starts automatically when the previous one is finished

# Workflow Example for SBND

https://pomsgpvm01.fnal.gov/ X Anna

Secure | https://pomsgpvm01.fnal.gov/poms/show\_campaigns

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Configure Work

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Campaign Stages ?

Anna Mazzacane

sbnd production

Mark Campaigns Active/Inactive Tag/Untag Campaigns Hold/Release Campaign Submission Show ALL Campaigns Statistics

Select All	Name	Active	Tags	Hold By	Creator	Created
<input type="checkbox"/>			mcc_test_1			
<input type="checkbox"/>	sbnd_gen_test	Yes	mcc_test_1		mengel	2018-02-08 15:16:33
<input type="checkbox"/>	sbnd_g4_test	Yes	mcc_test_1		mengel	2018-02-07 13:31:09
<input type="checkbox"/>	sbnd_anatree_test	Yes	mcc_test_1		mengel	2018-02-07 13:28:09
<input type="checkbox"/>	sbnd_detsim_test	Yes	mcc_test_1		mengel	2018-02-07 13:28:43
<input type="checkbox"/>	sbnd_reco_test	Yes	mcc_test_1		mengel	2018-02-07 13:30:14



# Workflow Example for SBND

The screenshot shows a web browser window with the URL [https://pomsgpvm01.fnal.gov/poms/show\\_tags](https://pomsgpvm01.fnal.gov/poms/show_tags). The browser's address bar and tabs are visible at the top. The page title is "POMS: Campaign Tags for". The main content area is titled "Campaign Tags" and shows the user "Anna Mazzacane". There are two dropdown menus for "sbnd" and "production". Below these, the "Campaign Tags" section lists two tags: "mcc\_test\_1" and "mcc\_test\_2". Each tag has a trash icon, a "Dependencies" link, and a "Submissions" link. A hand cursor with the word "click" is pointing at the "Dependencies" link for "mcc\_test\_2". The left sidebar contains a navigation menu with the following sections: "POMS" (with a search bar), "Calendar", "External Links" (with links to "Sbnd Logbook" and "POMS ServiceNow Page"), "Administration" (with links to "Experiments", "Users", and "Raw Tables"), "Campaign Data" (with links to "Tagged Campaigns" and "Campaign Stages"), and "Configure Work" (with links to "Compose Launch Template", "Compose Job Type", and "Compose Campaign Stages").

**POMS** Campaign Tags for

**Campaign Tags**

Anna Mazzacane

sbnd production

**Campaign Tags:**

- mcc\_test\_1 Dependencies Submissions
- mcc\_test\_2 Dependencies Submissions

click

# Workflow Example for SBND

Browser address bar: [https://pomsgpvm01.fnal.gov/poms/campaign\\_deps?tag=mcc\\_test\\_1](https://pomsgpvm01.fnal.gov/poms/campaign_deps?tag=mcc_test_1)

Navigation bar: POMS Campaign Dependencies

Search bar: Search...

Calendar

External Links

- Sbnd Logbook
- POMS ServiceNow Page

Administration

- Experiments
- Users
- Raw Tables

Campaign Data

- Tagged Campaigns
- Campaign Stages

Configure Work

- Compose Launch Template
- Compose Job Type
- Compose Campaign Stages

Campaign Dependencies for Tag **mcc\_test\_1**

see dependencies

sbnd production

Workflow diagram showing the sequence of tests and their submission counts:

```
graph LR; A["sbnd_gen_test  
Submissions 16 Located 7"] --> B["sbnd_g4_test  
Submissions 38 Located 19"]; B --> C["sbnd_detsim_test  
Submissions 36 Located 17"]; C --> D["sbnd_reco_test  
Submissions 34 Located 17"]; D --> E["sbnd_anatree_test  
Submissions 34 Located 17"];
```

# Workflow Example for SBND

The screenshot shows a web browser window with the URL [https://pomsgpvm01.fnal.gov/poms/show\\_tags](https://pomsgpvm01.fnal.gov/poms/show_tags). The page title is "POMS: Campaign Tags for". The user is logged in as Anna Mazzacane. The interface includes a sidebar with navigation links: POMS, Calendar, External Links (Sbnd Logbook, POMS ServiceNow Page), Administration (Experiments, Users, Raw Tables), Campaign Data (Tagged Campaigns, Campaign Stages), and Configure Work (Compose Launch Template, Compose Job Type, Compose Campaign Stages). The main content area is titled "Campaign Tags" and shows two campaign tags: "mcc\_test\_1" and "mcc\_test\_2". Each tag has a trash icon, a "Dependencies" link, and a "Submissions" link. A hand icon with the word "click" is pointing to the "Submissions" link for "mcc\_test\_2". The top right of the main content area shows the user's name and two dropdown menus: "sbnd" and "production".

Search...

Calendar

External Links

Sbnd Logbook

POMS ServiceNow Page

Administration

Experiments

Users

Raw Tables

Campaign Data

Tagged Campaigns

Campaign Stages

Configure Work

Compose Launch Template

Compose Job Type

Compose Campaign Stages

Campaign Tags

Anna Mazzacane

sbnd production

Campaign Tags:

- mcc\_test\_1 Dependencies Submissions
- mcc\_test\_2 Dependencies Submissions

click

# Workflow Example for SBND

https://pomsgpvm01.fnal.gov/ x Anna

Secure | https://pomsgpvm01.fnal.gov/poms/campaign\_time\_bars?tag=mcc\_test\_1&tdays=7&tmax=

Apps NCIS Unità Anticrimi... Colloquium "From P... Fermilab CASA Login Buddismo Giornali Auto Ricette Salute Film Tools CorsiOnLine Marco Lavoro » Other Bookmarks

Search... Q

Calendar

External Links

Sbnd Logbook

POMS ServiceNow Page

Administration

Experiments

Users

Raw Tables

Campaign Data

Tagged Campaigns

Campaign Stages

Configure Work

Compose Launch Template

Compose Job Type

Compose Campaign Stages

Campaign mcc\_test\_1 Submissions ?

2018-02-07 08:57 to 2018-02-14 08:57

<previous 7.0 days | next 7.0 days >

sbnd production

Campaign sbnd\_reco\_test Job States

Total	Active	Completed In 7.0 days ending 2018-02-14 08:57						
All	Idle	Running	Held	Total	Completed	Not Located	Located	Removed
46	0	0	0	46		10	36	0

Campaign sbnd\_detsim\_test Job States

Total	Active	Completed In 7.0 days ending 2018-02-14 08:57						
All	Idle	Running	Held	Total	Completed	Not Located	Located	Removed
64	0	0	0	64		14	50	0

Campaign sbnd\_anatree\_test Job States

Total	Active	Completed In 7.0 days ending 2018-02-14 08:57						
All	Idle	Running	Held	Total	Completed	Not Located	Located	Removed
50	0	0	0	50		9	41	0

Campaign sbnd\_g4\_test Job States

Total	Active	Completed In 7.0 days ending 2018-02-14 08:57						
All	Idle	Running	Held	Total	Completed	Not Located	Located	Removed
196	0	0	0	196		101	95	0

Campaign sbnd\_gen\_test Job States

Total	Active	Completed In 7.0 days ending 2018-02-14 08:57						
All	Idle	Running	Held	Total	Completed	Not Located	Located	Removed
70	0	0	0	70		65	5	0



# Workflow Example for SBND

**POMS Job Triage**

Search...

**Job Triage** triage your jobs

Anna Mazzacane

sbnd production

**Job Triage:**

Status	CPU Efficiency	Host Site	Node Name	CPU	Jobsub_Job_ID	Submission ID	Usr Exe Exit Code	Updated
✓ Completed	None	Wisconsin	e369.chtc.wisc.edu	GenuineIntel@4999	3877825.0@jobsub02.fnal.gov	41369	0	2018-02-09 14:55:16.829930-06:00

SAM Project

[http://samweb.fnal.gov:8480/station\\_monitor/sbnd/stations/sbnd/projects/sbndpro-fife\\_wrap\\_20180209\\_145004\\_2979455](http://samweb.fnal.gov:8480/station_monitor/sbnd/stations/sbnd/projects/sbndpro-fife_wrap_20180209_145004_2979455)

Logs

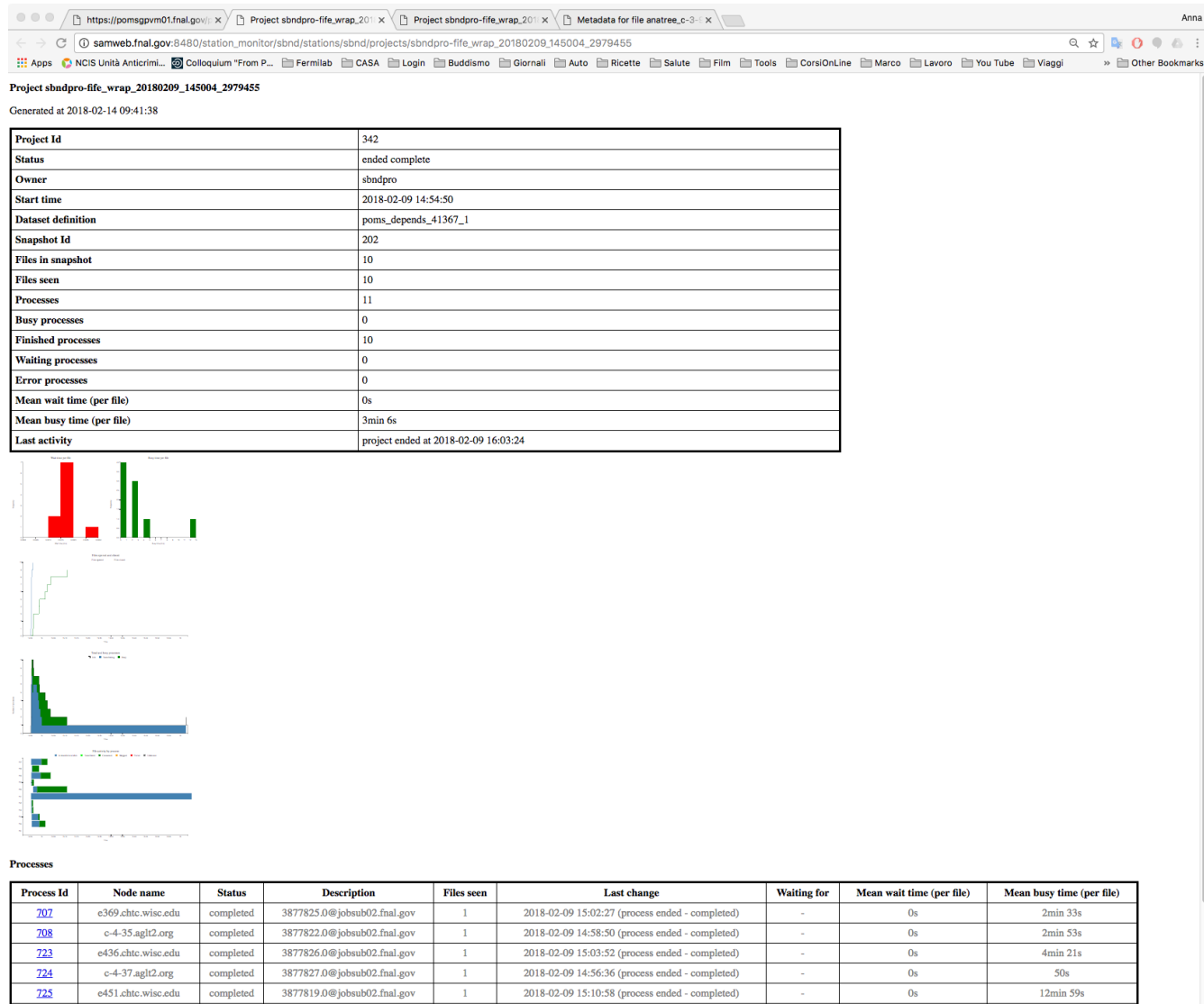
**Refetch**

Size Name

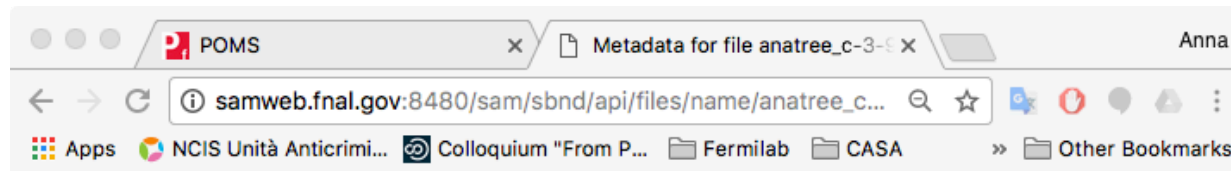
```

33172 fife_wrap
3344 fife_wrap_20180209_145004_2979455_1_1_cmd
8935 fife_wrap_20180209_145004_2979455_1_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_2_1_cmd
8935 fife_wrap_20180209_145004_2979455_2_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_3_1_cmd
8935 fife_wrap_20180209_145004_2979455_3_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_4_1_cmd
8935 fife_wrap_20180209_145004_2979455_4_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_5_1_cmd
8935 fife_wrap_20180209_145004_2979455_5_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_6_1_cmd
8935 fife_wrap_20180209_145004_2979455_6_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_7_1_cmd
8935 fife_wrap_20180209_145004_2979455_7_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_8_1_cmd
8935 fife_wrap_20180209_145004_2979455_8_1_wrap.sh
3344 fife_wrap_20180209_145004_2979455_9_1_cmd
8935 fife_wrap_20180209_145004_2979455_9_1_wrap.sh
3350 fife_wrap_20180209_145004_2979455_10_1_cmd
8936 fife_wrap_20180209_145004_2979455_10_1_wrap.sh
2917 fife_wrap_20180209_145004_2979455_1.dag
4356 fife_wrap_20180209_145004_2979455.sambegin.sh
2675 fife_wrap_20180209_145004_2979455_1.dagbegin.cmd
20 fife_wrap_20180209_145004_2979455.dagend.sh
    
```

# Workflow Example for SBND



# Workflow Example for SBND



## Metadata for anatreec-3-9.aglt2.org\_1518209945\_2174240\_0.root

[Locations](#) [Ancestors](#) [Children](#) [Descendants](#) [Raw ancestors](#)

File Name:	anatreec-3-9.aglt2.org_1518209945_2174240_0.root
File Id:	5252
Create Date:	2018-02-09T20:59:16+00:00
User:	sbndpro
File Size:	2260158102
Checksum:	enstore:3249849218
Content Status:	good
File Type:	unknown
File Format:	artroot
Application:	demo demo v06_48_00_mcc
Event Count:	15
First Event:	1
Last Event:	15
Start Time:	2018-02-09T20:58:56+00:00
End Time:	2018-02-09T20:59:02+00:00
Parents:	<a href="#">reco_e449.chtc.wisc.edu_1518208556_14504_0.root</a>

# Found Issues and Solutions

## Not Depending on POMS

---

➤ We had to solve the following issues that not depends on POMS:

- Missing library for the g4 stage like libXmu.so  
Hooked them up with the NOvA cvmfs lib area.  
Still saw failures in some offsite nodes, so ran the g4 stage onsite  
Suggested solution: check which libraries you really need
- Art's "SAM metadata dumper" can generate metadata keys that aren't valid for SAM  
Added code to filter them out.  
Suggested solution: filter the “SAM compliant ones” and drop the rest

# Get Help from POMS Team

POMS

Search...

Calendar

External Links

Sbnd Logbook

POMS ServiceNow Page

Administration

Raw Tables

Campaign Data

Tagged Campaigns

Campaign Stages

Configure Work

Compose Launch Template

Compose Job Type

Compose Campaign Stages

Jobs

All (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Day)

Failed\_By Exit Code and Campaign Stage Name (Last Week)

Failed\_By Exit Code and Node Name (Last Day)

Failed\_By Exit Code and CPU Type (Last Day)

Dashboard ?

See everything up and running in real time

Services

Anna Mazzacane

sbnd production

Job launches: allowed

Allow Hold

fifemon\_DCache (0/2) ✓

fifemon\_FifeBatch (0/2) ✓

fifemon\_SAM (0/4) ✓

fndca\_DCache (5/13) ✗

Key:

Good Component (0/total) ✓

Warn Component (num\_failed/total) ⚠

Failed Component (num\_failed/total) ✗

Unknown Component (0/total) ⓘ

# Get Help from POMS Team

The screenshot shows a web browser window with the URL [https://fermi.service-now.com/nav\\_to.do?uri=%2Fservice\\_offering.do%3Fsys\\_id%3D2deaa5b56f70520032544d1de3ee40c](https://fermi.service-now.com/nav_to.do?uri=%2Fservice_offering.do%3Fsys_id%3D2deaa5b56f70520032544d1de3ee40c). The page is titled "Fermilab Service Management" and displays the "POMS" service offering. The left sidebar contains a "Filter navigator" and a "Self-Service" menu with options like "Homepage", "Ideas", "Create New", "My Ideas", "All", "Self Service", "Service Request Catalog", "Core Computing Services", "Scientific Computing Services", and "Scientific Services Outage Calendar". The main content area shows the "POMS" service details, including an overview, description, and support availability. A "Get Help" sidebar on the right provides links to ask questions, report outages, submit requests, and give feedback. A hand icon with the word "click" points to the "Get Help" sidebar.

**Fermilab Service Management**

Anna Mazzacane

Service Offering: POMS

**POMS**

**Overview:**  
POMS is a system for managing experiments production computing requests.

**Description:**  
The Production Operations Management Service (POMS) will assist the production teams and the analysis groups of the experiments in their scientific computational work.  
POMS provides a system that enables automated jobs submission on distributed resources according customers' requests and subsequent monitoring and recovery of failed submissions, debugging and record keeping.

- Deployment of the application and the database schema
- Running of the application.
- Make changes to accommodate experiments needs requests.

The customer is the de-facto Owner and Information Manager for the outputs of POMS.

**Support Availability:**  
Weekdays, 8:00 am to 5:00 pm (excluding holidays)

**Service Area:**

**Get Help**

- [Ask a question about this service](#)
- [Report a service outage or incident](#)
- [Submit a request to service providers](#)
- [Give us feedback about this service](#)

**More Information/Need Help?**  
Service Desk  
Monday - Friday, 8-5  
<https://fermi.service-now.com>  
or 630.840.2345 or walk-ups (WHGF)

# Existing Documentation

The screenshot shows a web browser window with multiple tabs. The active tab is titled "Wiki - Production Operations Management Service (POMS)". The address bar shows the URL "https://cdcv.sfnal.gov/redmine/projects/prod\_mgmt\_db/wiki". The browser's bookmark bar contains various links including "Apps", "NCIS Unità Anticrim...", "Colloquium \*From P...", "Fermilab", "CASA", "Login", "Buddismo", "Giornali", "Auto", "Ricette", "Salute", "Film", "Tools", "CorsiOnline", "Marco", "Lavoro", and "Other Bookmarks". The page header includes navigation links: "Home", "My page", "Projects", and "Help". It also shows the user is logged in as "mazzacan" with links for "My account" and "Sign out". The main title of the page is "Production Operations Management Service (POMS)". Below the title is a search bar and a dropdown menu currently set to "Production Operations Management Service (POMS)". A horizontal navigation bar contains links: "Overview", "Activity", "Roadmap", "Issues", "New Issue", "Gantt", "Calendar", "News", "Documents", "Wiki" (which is highlighted), "Files", "Repository", "Code reviews", "HTML", and "Settings". The main content area is titled "What is POMS" and includes a paragraph describing the system, its goals, and its current use. It also lists the "Project Development Team & Mailing Lists" and provides a "User Guide for POMS". The "User Guide" section mentions that POMS runs behind a web service interface and provides REST interfaces for scripts. It also provides the URL for the production instance of POMS and a link to the FIFE Wiki page. The "POMS Internals" section provides topics for people developing POMS. The "Frequently Asked Questions" section provides a link to the POMS team's mailing list. On the right side of the page, there is a "Wiki" sidebar with links for "Start page", "Index by title", and "Index by date".

Home My page Projects Help

Production Operations Management Service (POMS)

Search: Production Operations Management Service (POMS)

Overview Activity Roadmap Issues New Issue Gantt Calendar News Documents Wiki Files Repository Code reviews HTML Settings

## What is POMS

The Production Operations Management System (POMS) is a project to design a service which assists production teams and analysis groups of experiments in their MC production and DATA processing. POMS provides a web service interface that enables automated jobs submission on distributed resources according customers' requests and subsequent monitoring and recovery of failed submissions, debugging and record keeping.

The system is interfaced to SAM data handling system to keep track of files and processing, the ECL to keep track of the production and processing operations and FIFEmon for monitoring. The ultimate goal is the most efficient utilization of all computing resources available to experiments, while providing a simple and transparent interface between users and the complexity of the grid.

We are currently working with several Intensity Frontier experiments to help them manage and track their MC production and DATA processing.

## Project Development Team & Mailing Lists

- Anna Mazzacane
- Yuyi Guo
- Marc Mengel
- Margherita Vittone
- Steve White
- Vladimir Podstavkov

Team's mailing list : [poms\\_team@sfnal.gov](mailto:poms_team@sfnal.gov)

## User Guide for POMS

POMS runs behind a web service interface that provides both interactive screens to users, and REST interfaces to scripts that interact with it. This means that experiments can use POMS through their web browser and configure and run their production code, or they can use the `poms_client` and `poms_jobsub_wrapper` tools to submit jobs through a command line and have POMS tracking, debugging and monitoring them.

The production instance of POMS is at <https://pomsgpvm01.sfnal.gov/poms/>

If new to computing at Fermilab, please read: FIFE Wiki page Welcome New Computing Users

Users' mailing list : [poms\\_announce@sfnal.gov](mailto:poms_announce@sfnal.gov)

## POMS Internals

Topics for people developing POMS.

If you wish to be part of the team and/or contribute to develop new features for your experiment and/or have a great professional experience with skilled computing staff, please send an email to [poms\\_team@sfnal.gov](mailto:poms_team@sfnal.gov).

## Frequently Asked Questions

If you don't find your question here, please send an e-mail to [poms\\_team@sfnal.gov](mailto:poms_team@sfnal.gov)

New file

Wiki

- Start page
- Index by title
- Index by date

---

# Thank You



# Backup Slides

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